Missouri Assessment Program
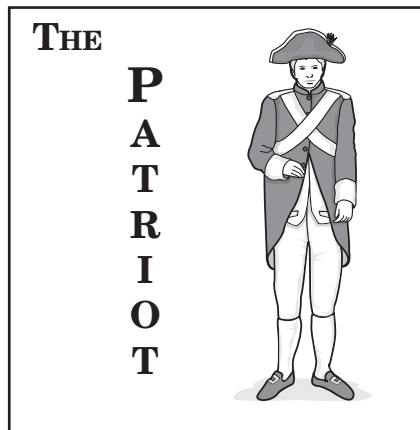## Spring 2004

Mathematics

# Anchor Pages for Released Items

Grade 8

Brent's, Keisha's, and Miguel's cover designs were the three finalists. They were voted on by the entire Drama Club to determine the winning design. The designs are shown below.

Brent	Keisha	Miguel
The Patriot	**THE PATRIOT**	**The Patriot**
_3_ Place	_2_ Place	_1_ Place

- Brent received $\frac{4}{15}$ of the votes.

- Keisha received $\frac{1}{3}$ of the votes.

- Miguel received $\frac{2}{5}$ of the votes.

Use the voting information above to determine the first, second, and third place designs. In the box, provide the work that shows how you arrived at your answers.

$$\frac{4}{15} \rightarrow \frac{4}{15}$$

$$\frac{1}{3} \rightarrow \frac{5}{15}$$
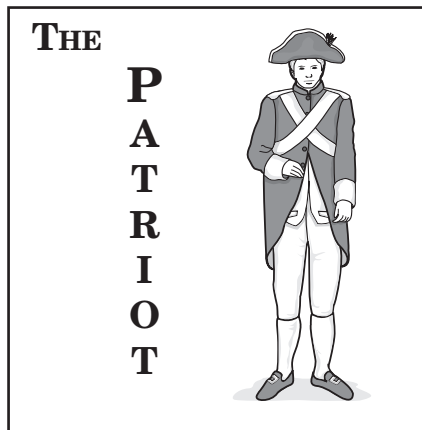
$$\frac{2}{5} \rightarrow \frac{6}{15}$$

Missouri Operational 2004
Grade 8 Math
ID# 20001
Session 1 Item 2
Score: 2 pt ANCHOR
>correctly labels 1st, 2nd, and 3rd place
>finds equivalent fractions

Brent's, Keisha's, and Miguel's cover designs were the three finalists. They were voted on by the entire Drama Club to determine the winning design. The designs are shown below.

Brent

_____3_____ Place

Keisha

_____2_____ Place
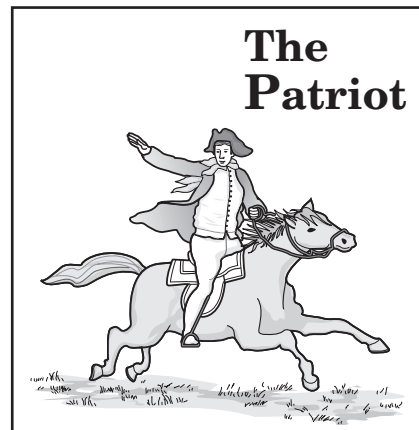
Miguel

___1___ Place

- Brent received $\frac{4}{15}$ of the votes.
- Keisha received $\frac{1}{3}$ of the votes.
- Miguel received $\frac{2}{5}$ of the votes.

Use the voting information above to determine the first, second, and third place designs. In the box, provide the work that shows how you arrived at your answers.

Missouri Operational 2004
Grade 8 Math
ID# 20002
Session 1 Item 2
Score: 1 pt ANCHOR
>correctly labels 1st, 2nd, and 3rd place
>incorrect process

2 out of 5 is better than 1 out of 3 and 1 out of 3 is better than 4 out of 15

Brent's, Keisha's, and Miguel's cover designs were the three finalists. They were voted on by the entire Drama Club to determine the winning design. The designs are shown below.
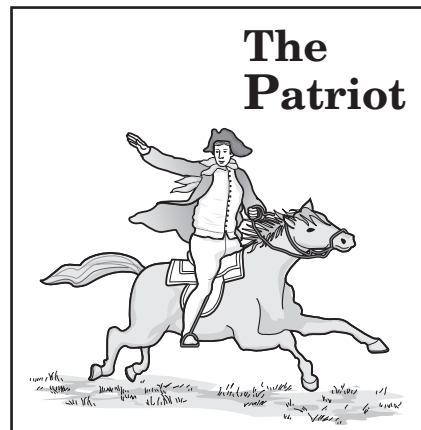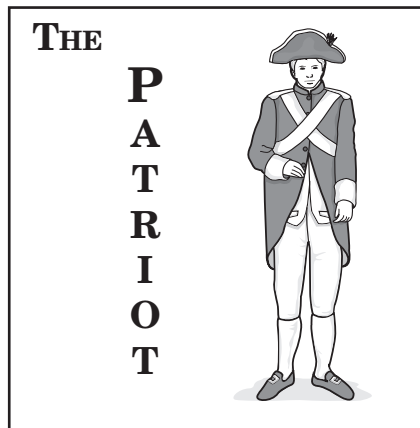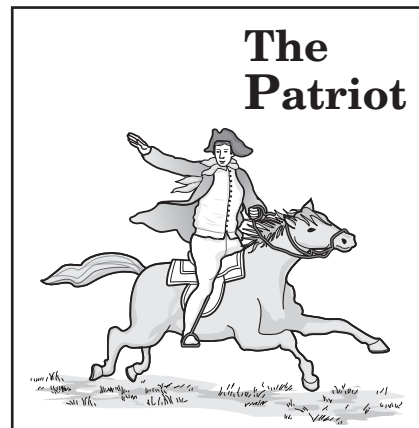

Brent

_____3_____ Place

Keisha

_____1_____ Place

Miguel

_____2_____ Place

- Brent received $\frac{4}{15}$ of the votes.
- Keisha received $\frac{1}{3}$ of the votes.
- Miguel received $\frac{2}{5}$ of the votes.

Use the voting information above to determine the first, second, and third place designs. In the box, provide the work that shows how you arrived at your answers.

$$\frac{1}{3} \times U = 1^{st}$$

$$\frac{2}{5} \times U = 2^{nd}$$

$$\frac{4}{15} \times U = 3^{rd}$$

Use the information in the table below to find the *median* height of the girls on the basketball team.

GIRLS' BASKETBALL TEAM

Player	Height (in inches)
Joanne	64
Sue	65
Lee Ann	61
Kyoko	58
Nicole	64
Rosa	59
Natasha	57
Andrea	60
Sara	62
Maria	60

In the box below, provide the work that shows how you arrived at your answer and write your answer on the line.

57, 58, 59, 60, 60 61, 62, 64, 64, 65
            middle

__60.5__ inches

Missouri Math Operational 2004
Grade 8   ID # 183279145
Session 2
Item 2
Score Point 2 Anchor
Correct process; shows "middle" between 60 and 61
Correct answer

Use the information in the table below to find the *median* height of the girls on the basketball team.

GIRLS' BASKETBALL TEAM

Player	Height (in inches)
Joanne	64
Sue	65
Lee Ann	61
Kyoko	58
Nicole	64
Rosa	59
Natasha	57
Andrea	60
Sara	62
Maria	60

In the box below, provide the work that shows how you arrived at your answer and write your answer on the line.

57, 58, 59, 60, 60, 61, 62, 64, 64, 65

_60.5_____ inches

Missouri Math Operational 2004
Grade 8   ID # 183274572
Session 2
Item 2
Score Point 1 Anchor
Partial process. Ordering numbers, by itself, is not sufficient process to support finding the median.
Correct answer

Use the information in the table below to find the *median* height of the girls on the basketball team.

GIRLS' BASKETBALL TEAM

Player	Height (in inches)
Joanne	64
Sue	65
Lee Ann	61
Kyoko	58
Nicole	64
Rosa	59
Natasha	57
Andrea	60
Sara	62
Maria	60

In the box below, provide the work that shows how you arrived at your answer and write your answer on the line.

$\underline{ 61 }$ inches

$$
\begin{array}{c}
4 \\
64 \\
65 \\
61 \\
58 \\
64 \\
59 \\
57 \\
60 \\
62 \\
+60 \\
\hline
610
\end{array}
\qquad
\begin{array}{r}
61 \\
10\overline{)610} \\
\underline{-60} \\
10 \\
\underline{-10} \\
0
\end{array}
$$

Missouri Math Operational 2004
Grade 8   ID # 183275825
Session 2
Item 2
Score Point 0 Anchor
Student calculates mean, not median
Incorrect answer